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Claims PTO

02/27/2006

AMW

Claims 1-36 cancelled.

37. A hand-held printer, comprising: an elongate printer housing having a portion to receive the palm of the user's hand, the housing having a front portion and a rear portion, a platen roll at the rear portion, the printer housing including a channel and flanges at opposite sides of the housing providing a compartment to embrace a portable data entry device, an electrical connector on the housing for connection to the data entry device, the housing providing space for mounting a roll of a printable web, a print module at the rear portion of the printer housing, the connector being disposed between the front portion and the roll-mounting space, the print module including a thermal print head cooperable with the platen roll for printing on the web and an electric motor for moving the platen roll, a releasable latch to latch the portable data entry device in the compartment of the printer housing, the compartment having an open top between the flanges to provide access to the portable data entry device, the compartment being open at the end of the front portion to enable a portable data entry device to be slidably received through the open end.

38. A hand-held printer as defined in claim 37, the palm-receiving portion being contoured and concave.

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39. A hand-held printer as defined in claim 37, the palm-receiving portion being contoured.

40. A hand-held printer as defined in claim 39, including a strap adjacent the contoured portion.

41. A hand-held printer as defined in claim 37, wherein the palm-receiving portion of the printer housing is concave between the front portion and the rear portion.

42. A hand-held printer as defined in claim 37, including a strap connected to the printer housing and capable of passing around the back of the user's hand.

43. A hand-held printer as defined in claim 37, the housing having a pair of opposed substantially mirror-image housing sections, wherein each housing section includes one of the flanges.

44. A hand-held printer as defined in claim 43, including a printer printed circuit board supported by the housing sections.

45. A hand-held printer as defined in claim 37, wherein the print module is mounted on the printer circuit board.

46. A hand-held printer as defined in claim 45, wherein at least one battery is mounted on the printer circuit board.

47. A hand-held printer as defined in claim 37, wherein at least one battery is mounted on a printer circuit board.

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48. A hand-held printer as defined in claim 37, including a printer printed circuit board supported within the housing, and wherein at least one battery is mounted on the printer circuit board.

49. A hand-held printer as defined in claim 37, including a printer printed circuit board supported within the housing, wherein the print module is mounted on the printer circuit board, and wherein at least one battery is mounted on the printer circuit board.

50. A hand-held printer as defined in claim 37, wherein the printer weighs less than 16 ounces.

51. A hand-held printer as defined in claim 37, wherein the platen roll is pivotally mounted toward and away from the print head.

52. A hand-held printer as defined in claim 37, wherein the housing includes a cover, and wherein the platen roll is pivotally mounted to the cover.

53. A hand-held printer as defined in claim 37, wherein the printer housing length is at least twice as great as the width.

54. A hand-held printer as defined in claim 37, wherein the platen roll forms part of the print module.

55. A hand-held printer as defined in claim 37, wherein the palm-receiving portion is disposed between the front and rear portions.

56. A hand-held printer as defined in claim 37, in combination with a portable data entry device.

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57. A hand-held printer, comprising: an elongate housing having a front portion with a compartment adapted to receive a data entry device, the housing further having a rear portion; a platen roll, a printer printed circuit board disposed in the housing, at least one battery on the printer printed circuit board at the front portion of the housing, and a thermal print head and an electric motor for driving the platen roll being mounted to the printer circuit board.

58. A hand-held printer as defined in claim 57, wherein the compartment is shaped to overlie embracingly the sides of a data entry device, the compartment having an open top and an open front end, and an electrical connector at the rear of the compartment for connection to a data entry device.

59. A portable printer as defined in claim 57, wherein there are a plurality of adjacent batteries, a separator between each pair of adjacent batteries, and the separators being secured to the printer circuit board.

60. A hand-held printer as defined in claim 57, wherein the compartment has an open top, and an electrical connector at the rear of the compartment for connection to a data entry device.

61. A hand-held printer, comprising: an elongate housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive a data entry device through the open end of the compartment, the compartment having a substantially open top

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portion, the housing further having a rear portion, a printer printed circuit board disposed in the housing, the printer circuit board having a front portion and a rear portion, and a thermal print head for printing on a web and an electric motor for driving the platen roll mounted to the rear portion of the printer circuit board.

62. A hand-held printer, comprising: an elongate housing having a front portion and a rear portion, the front portion having a compartment adapted to receive a data entry device, a thermal print head and a cooperating platen roll disposed at the rear portion, an electric motor for the platen roll, a printer printed circuit board in the housing, and the print head and the electric motor being mounted on the printer circuit board.

63. In combination: a hand-held printer and a portable data entry device connected thereto, the portable data entry device including an elongate data entry device housing having a front end, a scanner disposed on the front end of the data entry device housing for scanning a code, a display and a plurality of manually operable keys, the printer including an elongate printer housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive the data entry device through the open end of the compartment and to embrace the data entry device, the scanner being capable of receiving data through the open end of the compartment, the compartment having opposed flanges and a

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substantially open top portion to enable access to the display and the keys, the printer housing further having a rear portion, a platen roll at the rear portion, a printer printed circuit board disposed in the printer housing, and a thermal print head and an electric motor for the platen roll mounted to the printer circuit board at the rear portion of the printer housing.

64. In combination: a hand-held printer and a portable data entry device connected thereto, the portable data entry device including a data entry device housing having a front end, a scanner disposed on the front end of the data entry device housing for scanning a code, a display and a plurality of manually operable keys, the printer including an elongate printer housing having a front portion and a rear portion, the front portion having a compartment adapted to receive the data entry device, a thermal print head and a cooperating rotatable platen roll disposed at the rear portion, an electric motor for the platen roll, a printer printed circuit board in the printer housing, and the print head and the electric motor being mounted on the printer circuit board at the rear portion of the printer housing.

65. In combination: a hand-held printer and a portable data entry device connected thereto, the portable data entry device including a data entry device housing having a front end, a scanner disposed on the front end of the data entry device housing for scanning a code, a display and a plurality of manually operable keys, the printer

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including an elongate printer housing having a front portion with a compartment adapted to receive the data entry device, the housing further having a rear portion, a printer printed circuit board disposed in the housing, at least one battery on the printer circuit board at the front portion of the printer housing, a driven platen roll, a thermal print head and an electric motor for the platen roll, and the thermal print head and the electric motor being mounted to the printer circuit board at the rear portion of the printer housing.

66. A hand-held printer, comprising: an elongate housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive a data entry device through the open end of the compartment, the compartment having a substantially open top portion, the housing having a pair of opposed connected substantially mirror-image housing sections, the housing further having a rear portion, an elongate printer printed circuit board disposed in the housing and supported by the housing sections, the printer circuit board having a front portion and a rear portion, a thermal print head mounted to printer circuit board, a driven platen roll cooperable with the print head for printing on the web, and an electric motor for the platen roll mounted to the printer circuit board.

67. A hand-held printer as defined in claim 66, wherein the mirror-image housing sections receive the printed circuit board.

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68. A hand-held printer as defined in claim 66, wherein the mirror-image housing sections include slots which receive the printer circuit board.

69. A hand-held printer, comprising: an elongate housing having a front portion and a rear portion, the front portion having a compartment adapted to receive a data entry device, the housing having a pair of opposed substantially mirror-image housing sections with flanges for overlying and embracing a portable data entry device, a thermal print head and a cooperating platen roll disposed at the rear portion, a printer printed circuit board supported by the housing sections, a driven platen roll, an electric motor for the platen roll, and wherein the print head and the electric motor are mounted on the printer circuit board.

70. A hand-held printer as defined in claim 69, wherein the mirror-image housing sections receive the printed circuit board.

71. A hand-held printer as defined in claim 69, wherein the mirror-image housing sections include slots which receive the printer circuit board.

72. A hand-held printer, comprising: an elongate housing having a front portion with a compartment adapted to receive a portable data entry device, the housing further having a rear portion, the housing providing space for receiving a roll of a printable web, the housing having a pair of opposed substantially mirror-image connected

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housing sections, a printer printed circuit board disposed in the housing and supported by the housing sections, a driven platen roll, an electric motor for the platen roll, at least one battery, a thermal print head cooperable with the platen roll, and wherein the battery and the electric motor are mounted on the printer circuit board.

73. A portable printer, comprising: an elongate housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive a data entry device through the open end of the compartment, the compartment having a substantially open top portion, the housing further having a rear portion, the housing providing internal space at the rear portion for receiving a roll of a label web, an elongate printed circuit board disposed in the housing, the printed circuit board having a front portion and a rear portion, a print module mounted to the rear portion of the printed circuit board at the rear portion of the housing, and the print module including a thermal print head and a platen roll cooperable with the print head for printing on the label web, and at least one battery in the housing, and an access opening in the housing between the compartment and the inside of the housing, the battery being accessible through the access opening.

74. A portable printer, comprising: an elongate housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive a data entry device through the open end of

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the compartment, the compartment having a substantially open top portion, the housing further having a rear portion, the housing providing internal space at the rear portion for receiving a roll of a label web, an elongate printed circuit board disposed in the housing, the printed circuit board having a front portion and a rear portion, a print module mounted to the rear portion of the printed circuit board at the rear portion of the housing, the print module including a thermal print head and a platen roll cooperable with the print head for printing on the label web, at least one battery in the housing, an access opening in the housing between the compartment and the inside of the housing, the battery being accessible through the access opening, and a door for the opening movable between closed and open positions.

75. In combination: a portable printer and a portable data entry device connected thereto, the portable data entry device including an elongate data entry device housing having a front end, a scanner disposed at the front end of the data entry device housing for scanning a label, a display and a plurality of manually operable keys, the printer including an elongate printer housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive the data entry device through the open end of the compartment, the scanner being capable of receiving data through the open end of the compartment, the compartment having a substantially open top portion to enable access to the display and the keys, the printer housing further

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having a rear portion, the printer housing providing internal space at the rear portion for receiving a roll of a label web, an elongate printed circuit board disposed in the printer housing, the printed circuit board having a front portion and a rear portion, a print module mounted to the rear portion of the printed circuit board at the rear portion of the printer housing, the print module including a thermal print head and a platen roll cooperable with the print head for printing on the label web, at least one battery in the printer housing, and an access opening in the printer housing between the compartment and the inside of the printer housing, the battery being accessible through the access opening.

76. In combination: a portable printer and a portable data entry device connected thereto, the portable data entry device including an elongate data entry device housing having a front end, a scanner disposed at the front end of the data entry device housing for scanning a label, a display and a plurality of manually operable keys; the printer including an elongate printer housing having a front portion with an open-ended channel-shaped compartment adapted to slidably receive the data entry device through the open end of the compartment, the scanner being capable of receiving data through the open end of the compartment, the compartment having a substantially open top portion to enable access to the display and the keys, the printer housing further having a rear portion, the printer housing providing internal space at

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the rear portion for receiving a roll of a label web, an elongate printed circuit board disposed in the printer housing, the printed circuit board having a front portion and a rear portion, a print module mounted to the rear portion of the printed circuit board at the rear portion of the printer housing, the print module including a thermal print head and a platen roll cooperable with the print head for printing on the label web, at least one battery in the printer housing, an access opening in the printer housing between the compartment and the inside of the printer housing, the battery being accessible through the access opening, and a door for the opening movable between closed and open positions.